

TIMOREX ACT[®]

ADVANCED NATURAL PLANT
DISEASE CONTROL

Trifecta Disease Protection

TIMOREX ACT is a natural fungicide that delivers broad-spectrum preventive, curative and anti-sporulant control of fungal and bacterial plant diseases.

This purely organic formulation is a broad-spectrum fungicide with preventative, curative and anti-sporulant activity based on the extract of the tea tree plant (*Melaleuca alternifolia*). OMRI-listed for organic use, TIMOREX ACT[®] is poised to meet the most rigorous standards for sustainable agriculture.

With its multiple modes of action, TIMOREX ACT[®] shows improved efficacy against a broad spectrum of plant diseases in a variety of crops, including Powdery Mildew, Early Blight, *Botrytis* and more.

Modes of Action

The active ingredient of TIMOREX ACT is based on the extract of the tea tree plant (*Melaleuca alternifolia*) containing over 100 compounds. Some of these compounds work synergistically; some offer diverse modes of action. Disruption of the fungal cell membrane and destruction of the cell walls result in lower levels of fungal hyphae within the intercellular space of the mesophyll tissue followed by the loss of cytoplasm, which ultimately causes the death of fungal cells.

The complex active ingredient in TIMOREX ACT:

- Disrupts cell membranes, causing cell destruction
- Affects fungal pathogen mitochondria and respiration
- Appears to interfere with bacterial pathogen virulence by confusing quorum sensing
- Affects Intrinsic Plant Activity, allowing the plant to focus energy of increased growth and yield
- Inhibits spore germination in some pathogens and suppresses hyphal growth in other pathogens

Disease Targets Include

- *Botrytis* (Grey Mold)
- Powdery Mildew
- Downy Mildew
- *Alternaria*
- Bacterial diseases like *Xanthomonas* and *Pseudomonas*
- And much more

See label for a complete list of registered crops and diseases controlled.

Benefits of TIMOREX ACT

- Multiple modes of action
- Control of a wide range of plant pathogens, particularly bacterial and ascomycete diseases
- Resistance management
- No residues; no MRL
- Zero toxic load
- Easily adapted into sustainable and IPM practices
- OMRI-listed for organic use
- Non-persistent in the environment
- No measurable effect on beneficial insects and bees
- Minimal PPE required

GROUP BM01 FUNGICIDE



* TIMOREX ACT is among the organic fungicides considered least toxic to bees by the Xerces Society for Invertebrate Conservation.

Applying TIMOREX ACT

Applied properly and following all label directions, TIMOREX ACT is both flexible and effective in controlling target disease in fruity and vegetable crops. Timorex ACT does not require the use of an adjuvant.

As a contact fungicide, quality application of TIMOREX ACT is important to maximize efficacy. Use sufficient water volume to ensure coverage and control droplet size (ideally 10 to 150 mm). TIMOREX ACT can be applied both by ground equipment and aerial equipment. Use TIMOREX ACT when conditions favoring disease development are present. As a preventative, applications should be made on 7 to 10 day intervals, depending on the severity of infestation of the crop.

The formulation of TIMOREX ACT is alkaline; acidifying agents may affect its efficacy when used in a tank mix. It is recommended that the average pH of the spray solution is kept between 6.5-7.5 (6.0-8.5). TIMOREX ACT is not affected by hard water (presence of magnesium, calcium or carbonate ions in the water). There is no need to add softening agents.

As a natural botanical fungicide, with unique multi-site modes of action, TIMOREX ACT is a natural tool for resistance management and IPM spray programs. TIMOREX ACT should be used in alternation or in tank mixes with conventional or biological products.

REGISTERED CROPS	
Bananas	Hops
Berries (Crop Group 13-07)	Peanuts
Citrus Fruit (Crop Group 10-10)	Pomegranate
Bulb Vegetables (Crop Group 3-07)	Root & Tuber Vegetables (Crop Group 14-12)
Cereal Grains (Crop Group 15)	Tropical & Subtropical Fruit (Crop Group 24)
Cucurbit Vegetables (Crop Group 9)	Coffee
Fruiting Vegetables (Crop Group 8-10)	Greenhouse Crops:
Grass Seed Production	<ul style="list-style-type: none"> Fruiting Vegetables (Crop Group 8-10)
Leafy Vegetables (Crop Group 4-16)	<ul style="list-style-type: none"> Berries (Crop Group 13-07)
Legume Vegetables (Crop Group 6)	<ul style="list-style-type: none"> Leafy Vegetables (Crop Group 4-16)
Stone Fruit (Crop Group 12-12)	<ul style="list-style-type: none"> Cucurbit Vegetables (Crop Group 9)
Pome Fruit (Crop Group 11-10)	

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